

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	3	((implant implantable imd) and (transducer ultrasound acoustic) and (sensor gel microsphere) and (myocardi\$2 ((cardiac heart) adj tissue)) and (size stiffness reflection transmission attenuation) and (ph ion concentration)).dm.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/25 15:28
L9	3	((implant implantable imd) and (transducer ultrasound acoustic) and (sensor gel microsphere) and (myocardi\$2 ((cardiac heart) adj tissue)) and (size stiffness reflection transmission attenuation) and (ph ion concentration)).clm.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/25 15:28
S3	1	("6272377").FN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:01
S4	8	("20030100822"   "4703756"   "5062841"   "5305745"   "5843156"   "6296630"   "6350463"   "6751491").FN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:01
S5	9	S3 S4	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:41
S6	8	S5 and electrical	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:14
S7	6	S6 and (vein artery (blood adj vessel))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:21
S8	3	S6 and tachyarrhythmia	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:24
S9	430	(600/528).OCLS.	US-PGRUB; USPAT; USOCR	OR	OFF	2007/01/25 15:24
S10	4	S5 and (IMD pacemaker)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:41

S11	0	S5 and (IMD implantable pacemaker)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:41
S12	9	S5 and (IMD implantable pacemaker)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 15:47
S13	3	S5 and ((acoustic ultrasound) same controller)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 16:03
S14	3	S5 and intravascular	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 16:02
S15	3	S13 and (lead catheter)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 16:03
S16	3	S5 and ((acoustic ultrasound) same (lead catheter))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 10:03
S17	2	S5 and ischemia	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/25 16:05
S18	8	("20030100822"   "4703756"   "5062841"   "5305745"   "5843156"   "6296630"   "6350463"   "6751491").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:07
S19	430	(600/528).CCLS.	US-PGRUB; USPAT; USOCR	OR	OFF	2007/01/26 08:09
S20	1	("6272377").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:38
S21	8	("20030100822"   "4703756"   "5062841"   "5305745"   "5843156"   "6296630"   "6350463"   "6751491").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:38
S22	9	S20 S21	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:38
S23	6	S22 and (vein artery (blood adj vessel))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:38

S24	6	S22 and (vein artery (blood adj vessel))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 08:38
S25	3	S21 and myocardium	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/01/26 10:03
S26	1	("6272377").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:21
S27	8	("20030100822"   "4703756"   "5062841"   "5305745"   "5843156"   "6296630"   "6350463"   "6751491").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:33
S28	6893	sensor and biocompatible and implant\$4	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:34
S29	3147	S28 and (swell\$3 (chang\$3 same (size stiffness density)))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:35
S30	2571	S28 and ((chang\$3 same (size stiffness density)))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:54
S31	1037	S29 and (acoustic ultrasound)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:36
S32	742	S29 and ultrasound	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:36
S33	456	S32 and (reflection transmission attenuation)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:36
S34	77	S33 and (myocardium)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:36
S35	25	S34 and (sphere spherical)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:36
S36	25	S35 and catheter	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:37

S37	20	S36 and (computer network telephony)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 17:00
S38	18	S37 and (ph ion)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:38
S39	18	S38 and (coronary artery)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:38
S40	14	S39 and (ischemia tachyarrhythmi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 17:00
S41	1930	hydrogel and catheter and (ultrasound acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:47
S42	37	hydrogel same catheter same (ultrasound acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:53
S43	549	(ultrasound acoustic) same (ischemia tachyarrhythmi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:54
S44	111	S43 and sphere	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:54
S45	105	S44 and (myocardium heart cardiac)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:54
S46	73	S45 and (((chang\$3 differ\$4) same (size stiffness density)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:58
S47	63	S45 and (((chang\$3 differ\$4) near\$3 (size stiffness density)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:55
S48	63	S47 and (reflect\$4 transmission transmit\$3 attenuat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:56
S49	45	S47 and catheter	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:56

S50	4	S39 not S40	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:56
S51	7	S36 not S38	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:56
S52	52	S34 not S35	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:56
S53	100201	sens\$3 same (chang\$3 differ\$4) same (size stiffness density)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:59
S54	26501	sens\$3 same ((chang\$3 differ\$4) near3 (size stiffness density))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:59
S55	2073	S54 and (ultrasound acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:59
S56	281	S55 and ("600" "607").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:59
S57	143	S56 and (myocardi\$2 heart cardiac)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 16:59
S58	107	S57 and (computer network telephony)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 17:00
S59	22	S58 and (ischemia tachyarrhythmi \$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/08 17:00
S60	1	("5,653,732").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/09 11:18

S61	24	(US-20030100822-\$ or US-20050049492-\$ or US-20020176849-\$ or US-20040267086-\$ or US-20020119441-\$).did. or (US-6272377-\$ or US-6751491-\$ or US-6350463-\$ or US-6296630-\$ or US-5843156-\$ or US-5305745-\$ or US-4703756-\$ or US-5062841-\$ or US-6416740-\$ or US-6322515-\$ or US-5445155-\$ or US-7198949-\$ or US-7083572-\$ or US-7078015-\$ or US-6939530-\$ or US-6537246-\$ or US-6348186-\$ or US-6315981-\$ or US-6123923-\$).did.	US-PGRUB; USPAT	OR	ON	2007/08/09 12:19
S62	1	("6296630").FN.	US-PGRUB; USPAT; USOCR	OR	OFF	2007/08/09 12:20
S63	13	S61 and sensor	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 12:49
S64	23	S61 and tissue	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 12:49
S65	22	S61 and (acoustic ultrasound)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 12:52
S66	23	S61 and (size swell\$3)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 12:56
S67	19	S61 and (stiffness density (acoustic same (reflection transmission transmittance attenuation)))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:03
S68	21	S61 and (myocardial\$2 heart cardiac)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:04
S69	14	S61 and (sphere microsphere)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:07
S70	24	S61 and (catheter lead)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:16
S71	20	S61 and (display output)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:18

S72	19	S61 and (ion\$2 ph)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:54
S73	23	S61 and (external programmer computer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 13:50
S74	19	S61 and (coronary artery vein)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:04
S75	16	S61 and ischemi\$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:12
S76	5	S61 and (tachycardia\$1 tachyarrhythmi\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:08
S77	5	S61 and (tachycardia\$1 tachyarrhythmi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:01
S78	6866	(ultrasound ultrasonic) same (housing pmma polymethylmethacrylate) same (transmit\$3 through)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:15
S79	410	S78 and implant\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:14
S80	218	S79 and ("600" "607").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:14
S81	1257	(ultrasound ultrasonic) same ((housing pmma polymethylmethacrylate) near3 (through))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:15
S82	53	S81 and implant\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:15
S83	21	S82 and ("600" "606" "607").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:22
S84	32	S82 not S83	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:24

S85	206	ultrasound same detect\$3 same through same (housing implant imd)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:25
S86	206	S85 not (S82 S83 S84)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:25
S87	91	S86 and ("600" "607").clas.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:25
S88	48	ultrasound same detect\$3 same (through near3 (housing implant imd))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:25
S89	27	S88 and ("600" "607" "606").clas.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/09 14:25
S90	1	("5,161,536").PN.	US-PGRUB; USPAT; USOCR	OR	OFF	2007/08/10 13:11
S91	28	(US-20030100822-\$ or US-20020176849-\$ or US-20020119441-\$ or US-20050049492-\$ or US-20040267086-\$).did. or (US-5161536-\$ or US-6751491-\$ or US-6350463-\$ or US-6296630-\$ or US-6272377-\$ or US-5843156-\$ or US-5305745-\$ or US-4703756-\$ or US-5062841-\$ or US-7083572-\$ or US-6416740-\$ or US-7078015-\$ or US-7198949-\$ or US-6315981-\$ or US-6123923-\$ or US-6939530-\$ or US-6537246-\$ or US-6348186-\$ or US-6322515-\$ or US-5445155-\$ or US-6770032-\$ or US-5993378-\$ or US-5324297-\$).did.	US-PGRUB; USPAT	OR	ON	2007/08/13 12:19
S92	7	S91 and (tachycardia\$1 tachyarrhythmi\$2 arrhythmi\$2)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:17
S93	8	("20030100822"   "4703756"   "5062841"   "5305745"   "5843156"   "6296630"   "6350463"   "6751491").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:09
S94	1	("6272377").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:09



S95	9	S93 S94	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:09
S96	19	S91 not S95	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:12
S97	442	(600/528).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/13 11:12
S98	17	S91 and (tachycardia\$1 tachyarrhythmi\$2 arrhythmi\$2 ischemia)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:18
S99	16	S91 and (ischemia)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 12:45
S100	48	ultrasound same detect\$3 same (through near3 (housing implant imd))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:51
S101	4	S91 and organelle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:52
S102	0	S91 and ((ultrasound ultrasonic acoustic) same organelle)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:54
S103	4	S91 and (ultrasound ultrasonic acoustic) and organelle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 11:54
S104	20	S91 and (artery vein)	US-PGPUB; USPAT	OR	ON	2007/08/13 12:19
S105	13	S99 and (sphere spherical microsphere)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/08/13 12:46
S106	6	((("5062841") or ("20030100822") or ("20020176849") or ("6123923") or ("6348186") or ("6296630")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/27 14:14
S107	1	("5161536").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/27 10:25
S108	7	S106 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 11:07

S109	5	S108 and (myocardium heart cardiac myocardial)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 10:45
S110	5	S108 and (ph ion acid)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 10:32
S111	6	S108 and (acoustic ultrasound)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 11:00
S112	192	(ph ion) same (myocardi\$2 heart cardiac) same (ultrasound acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 11:00
S113	41	(ph ion) same (myocardi\$2 heart cardiac) same (ultrasound acoustic) same (swell swelling swellable size volume volumetric)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 11:00
S114	963	(chronic chronically permanent\$2) same microsphere	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 14:16
S115	48	S114 and ("600" "607").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 14:15
S116	29	S115 and (heart cardiac myocardi \$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 14:16
S117	68	(chronic chronically permanent\$2) same microsphere same (heart cardiac myocardi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/27 14:16
S118	28	(US-20020176849-\$ or US-20050049492-\$ or US-20030100822-\$ or US-20020119441-\$ or US-20040267086-\$).did. or (US-6770032-\$ or US-5993378-\$ or US-5324297-\$ or US-5161536-\$ or US-6416740-\$ or US-5305745-\$ or US-4703756-\$ or US-5062841-\$ or US-5843156-\$ or US-6272377-\$ or US-6296630-\$ or US-6350463-\$ or US-6751491-\$ or US-7083572-\$ or US-6939530-\$ or US-6537246-\$ or US-6348186-\$ or US-6315981-\$ or US-7198949-\$ or US-7078015-\$ or US-6123923-\$ or US-5445155-\$ or US-6322515-\$).did.	US-PGPUB; USPAT	OR	ON	2008/01/17 14:47
S119	18	S118 and ((implant\$4 internal insert \$4) same (ultrasound us acoustic))	US-PGPUB; USPAT	OR	ON	2008/01/17 15:47

S120	4278	((implant\$4 internal insert\$4) near3 (ultrasound acoustic))	US-PGPUB; USPAT	OR	ON	2008/01/17 15:47
S121	332	((implant\$4 internal insert\$4) near3 (ultrasound acoustic)) same (heart myocardi\$2 cardiac)	US-PGPUB; USPAT	OR	ON	2008/01/17 16:14
S122	4	((implant\$4 internal insert\$4) near3 (ultrasound acoustic)) same (heart myocardi\$2 cardiac) same (pH ion \$2 acidity)	US-PGPUB; USPAT	OR	ON	2008/01/17 16:04
S123	28	S121 and (sphere microsphere)	US-PGPUB; USPAT	OR	ON	2008/01/17 16:05
S124	0	("2007/0027371").URPN.	USPAT	OR	ON	2008/01/17 16:05
S125	6	((("5062841") or ("20030100822") or ("20020176849") or ("6123923") or ("6348186") or ("6296630"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/25 17:38
S126	6	S125 and (chronic chronically permanent\$2 degrad\$4 biodegrad \$4 bio-degrad\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/25 17:39
S127	6	S125 and (chronic chronically permanent\$2 degrad\$4 biodegrad \$4 bio-degrad\$4 dissolv\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/25 17:39
S128	144	(chronic chronically permanent\$3) near3 (microsphere microbead)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/25 17:49
S129	16	S128 and ("600" "607").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/25 17:50
S130	27	S128 and (heart cardiac myocardi \$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/25 17:50
S131	5	((chronic chronically permanent\$3) near3 (microsphere microbead)) same (imag\$3 ultrasound ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 11:32
S132	258	((((implant\$4 internal insert\$4) near3 (ultrasound acoustic)) same (heart myocardi\$2 cardiac)) and ("600" "607").clas.	US-PGPUB; USPAT	OR	ON	2008/02/26 12:31

S133	47	(US-20020176849-\$ or US-20050049492-\$ or US-20030100822-\$ or US-20020119441-\$ or US-20040267086-\$ or US-20070027371-\$ or US-20070015981-\$ or US-20070010702-\$ or US-20060229594-\$ or US-20050107870-\$ or US-20050234336-\$ or US-20040258614-\$ or US-20060251582-\$).did. or (US-6770032-\$ or US-5993378-\$ or US-5324297-\$ or US-5161536-\$ or US-6416740-\$ or US-5305745-\$ or US-4703756-\$ or US-5062841-\$ or US-5843156-\$ or US-6272377-\$ or US-6296630-\$ or US-6350463-\$ or US-6751491-\$ or US-7083572-\$ or US-6939530-\$ or US-6537246-\$ or US-6348186-\$ or US-6315981-\$ or US-7198949-\$ or US-7078015-\$ or US-6123923-\$ or US-5445155-\$ or US-6322515-\$ or US-6628989-\$ or US-6645147-\$ or US-5601084-\$).did. or (US-5188106-\$ or US-5156154-\$ or US-6421565-\$ or US-6810286-\$ or US-6666811-\$ or US-6328700-\$ or US-4345588-\$ or US-4849210-\$).did.	US-PGRUB; USPAT	OR	ON	2008/02/26 12:46
S134	12	S133 and (tachyarrhythmia\$2 arrhythmia\$2 tachycardia\$2)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 12:46
S135	0	"5062841".pn. and (transducer ultrasound ultrasonic imag\$3)	US-PGRUB; USPAT	OR	ON	2008/02/26 13:21
S136	457	(600/528).OCLS	US-PGRUB; USPAT; USOCR	OR	OFF	2008/02/26 13:48
S137	18	("20020119441"   "20020176849"   "20030100822"   "4703756"   "5062841"   "5161536"   "5305745"   "5843156"   "6123923"   "6272377"   "6296630"   "6315981"   "6348186"   "6350463"   "6751491"   "6939530"   "7078015"   "7083572").PN.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 13:55
S138	29	S133 not S137	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 13:55
S139	1	"5062841".pn. and (chronic permanent\$2 chronically continuous \$2)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 15:16

S140	144	(chronic chronically permanent\$3) near3 (microsphere microbead)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 15:54
S141	16	S140 and ("600" "607").clas.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 15:54
S142	2	S141 and micrometer	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 15:54
S143	1020	microsphere same ultrasound	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 17:09
S144	52	microsphere same ultrasound same (implant\$4)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/02/26 17:09
S145	0	microsphere same ultrasound same (implant\$4) same (heart myocardi \$2 cardiac)	US-PGRUB; USPAT	OR	ON	2008/02/26 17:09
S146	113	microsphere same ultrasound same (heart myocardi\$2 cardiac)	US-PGRUB; USPAT	OR	ON	2008/02/26 17:10
S147	29	S146 and ("600" "607").clas.	US-PGRUB; USPAT	OR	ON	2008/02/26 17:10
S148	1	microsphere same ultrasound same (heart myocardi\$2 cardiac) same (chronic permanent\$2 chronically)	US-PGRUB; USPAT	OR	ON	2008/02/26 17:12
S149	2	("4849210" "4345588").pn. and (chronic chronically permanent\$3 continuous\$2)	US-PGRUB; USPAT	OR	ON	2008/02/26 17:21
S150	6276	implant\$3 same (transducer ultrasound acoustic)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:14
S151	2999	(sensor gel microsphere sphere) same (myocardi\$2 ((cardiac heart) adj tissue))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:16
S152	362	S150 and S151	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:21
S153	298	S152 and ("600" "607").clas.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:22
S154	430	(sensor gel microsphere sphere) same (myocardi\$2 ((cardiac heart) adj tissue)) same (ph ion concentration)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:22

S155	51	S150 and S154	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:22
S156	171	S152 and (ph ion)	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:23
S157	64	S156 and ((transducer ultrasound acoustic) same (size stiffness reflection transmission attenuation))	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/22 11:23
S158	468	((600/528).CCLS.	US-PGRUB; USPAT; USOCR	OR	OFF	2008/08/25 14:40
S159	3	((implant implantable imd) and (transducer ultrasound acoustic) and (sensor gel microsphere) and (myocardial\$2 ((cardiac heart) adj tissue)) and (size stiffness reflection transmission attenuation) and (ph ion)).clm.	US-PGRUB; USPAT; USOCR; EPO; JPO	OR	ON	2008/08/25 14:42

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